

Application Number 10/824,155
Amendment dated January 9, 2008
Response to Office Action mailed October 9, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended) A method comprising:

receiving confirmation information;

applying changes to candidate configuration data of a network device in response to the received configuration information;

applying an implementation-specific configuration policy to alter the changes that were applied to the candidate configuration data in response to the received configuration information, wherein the implementation-specific configuration policy comprises user-defined checks that prohibit configuration of the network device in a manner inconsistent with an intended implementation of the network device even when the candidate configuration data is semantically and syntactically correct; and

committing the altered candidate configuration data to operational configuration data of the network device.

Claim 2 (Original) The method of claim 1, wherein applying the implementation-specific configuration policy comprises:

generating additional configuration data; and

inserting the additional configuration data into the changed candidate configuration data.

Claim 3 (Original) The method of claim 2, generating additional configuration data comprises:

identifying a configuration command within the changed candidate configuration data;

and

generating additional configuration data for the identified command.

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Claim 4 (Original) The method of claim 3, wherein inserting the additional configuration data comprises inserting the additional configuration data into the changed candidate configuration data based on a location of the identified command within the changed candidate configuration data.

Claim 5 (Original) The method of claim 1, wherein applying an implementation-specific configuration policy comprises:
receiving a commit command; and
automatically applying the implementation-specific configuration policy in response to receiving a commit command.

Claim 6 (Original) The method of claim 1, wherein applying an implementation-specific configuration policy comprises:
generating a copy of the candidate configuration data; and
applying the implementation-specific configuration policy to the copy of the candidate configuration.

Claim 7 (Original) The method of claim 6, wherein applying an implementation-specific configuration policy to the copy of the candidate configuration occurs via an Extensible Markup Language (XML) Application Program Interface (API).

Claim 8 (Original) The method of claim 6,
wherein generating a copy of the candidate configuration data comprises generating a version of the candidate configuration data that conforms to an Extensible Markup Language, and
wherein applying an implementation-specific configuration policy comprises applying an Extensible Style Language Transformation (XSLT) script to the copy of the candidate configuration data.

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Claim 9 (Original) The method of claim 1, wherein the implementation-specific configuration policy comprises an Extensible Style Language Transformation (XSLT) script.

Claim 10 (Currently Amended) A system comprising:
a memory to store operational configuration data and candidate configuration data; and
a control unit to receive configuration information, apply changes to candidate configuration data in response to the received configuration information, apply an implementation-specific configuration policy to alter changes that were applied to the candidate configuration data in response to the received configuration information, and commit the altered candidate configuration data to the operational configuration data, wherein the implementation-specific configuration policy comprises user-defined checks that prohibit configuration of the network device in a manner inconsistent with an intended implementation of the network device even when the candidate configuration data is semantically and syntactically correct.

Claim 11 (Original) The system of claim 10, wherein the control unit applies the implementation-specific configuration policy by generating additional configuration data, and inserting the additional configuration data into the changed candidate configuration data.

Claim 12 (Original) The system of claim 11, wherein the control unit identifies a configuration command within the changed candidate configuration data, generates the additional configuration data for the identified command, and inserts the additional configuration data into the changed candidate configuration data.

Claim 13 (Original) The system of claim 10, wherein the control unit comprises a management interface to apply the implementation-specific configuration policy, wherein the management interface receives a commit command, and automatically applies the implementation-specific policy in response to receiving the commit command.

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Claim 14 (Original) The system of claim 10, wherein the control unit comprises a management interface to apply the implementation-specific configuration policy by generating a copy of the candidate configuration data and applying the implementation-specific configuration policy to the copy of the candidate configuration.

Claim 15 (Original) The system of claim 14, wherein the management interface comprises an Extensible Markup Language (XML) Application Program Interface (API) to apply the implementation-specific configuration policy to the copy of the candidate configuration.

Claim 16 (Original) The system of claim 14,

wherein the management interface comprises an Extensible Markup Language (XML) generator to generate the copy of the candidate configuration data, wherein the copy of the candidate configuration data includes a version of the candidate configuration data that conforms to the Extensible Markup Language, and

wherein the management interface applies an implementation-specific configuration policy comprising an Extensible Style Language Transformation (XSLT) script to the copy of the candidate configuration data.

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Claim 17 (Currently Amended) A computer-readable storage medium comprising instructions to cause a processor to:

receive configuration information;

apply changes to candidate configuration data of a network device in response to the received configuration information;

apply an implementation-specific configuration policy to alter the changes that were applied to the candidate configuration data in response to the received configuration information, wherein the implementation-specific configuration policy comprises user-defined checks that prohibit configuration of the network device in a manner inconsistent with an intended implementation of the network device even when the candidate configuration data is semantically and syntactically correct; and

commit the altered candidate configuration data to operational configuration data of the network device.

Claim 18 (Currently Amended) The computer-readable storage medium of claim 17, further comprising instruction to cause the processor to apply the implementation-specific configuration policy by generating additional configuration data, and inserting the additional configuration data into the changed candidate configuration data.

Claim 19 (Currently Amended) The computer-readable storage medium of claim 18, further comprising instructions to cause the processor to identify a configuration command within the changed candidate configuration data.

Claim 20 (Currently Amended) The computer-readable storage medium of claim 19, further comprising instruction to cause the processor to generate the additional configuration data for the identified command, and insert the additional configuration data into the changed candidate configuration data based on a location of the identified command within the candidate configuration data.

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Claim 21 (Currently Amended) The computer-readable storage medium of claim 17, further comprising instructions to cause the processor to:

receive a commit command; and

automatically apply the implementation-specific policy in response to receiving the commit command.

Claim 22 (Currently Amended) The computer-readable storage medium of claim 17, further comprising instructions to cause the processor to:

generate a copy of the candidate configuration data; and

apply the implementation-specific configuration policy to the copy of the candidate configuration.

Claim 23 (Currently Amended) The computer-readable storage medium of claim 22, further comprising instruction to cause the processor to apply an implementation-specific configuration policy to the copy of the candidate configuration via an Extensible Markup Language (XML) Application Program Interface (API).

Claim 24 (Currently Amended) The computer-readable storage medium of claim 22, further comprising instructions to cause the processor to generate a version of the candidate configuration data that conforms to an Extensible Markup Language.

Claim 25 (Currently Amended) The computer-readable storage medium of claim 24, wherein the implementation-specific configuration policy includes an Extensible Style Language Transformation script and further comprising instructions to cause the processor to apply the Extensible Style Language Transformation (XSLT) script to the copy of the candidate configuration data.